Facility Name _____ Contact _____ Phone _____

T Check off the appropriate boxes so that proper air pollution estimates can be made.
Organize your data to try to optimize data quality

“ No. of Bulk Storage Tanks for VOCs other than fuel oil _____

“ Mixing Room personnel mix formulations to our own specifications
“ Mixing Room personnel merely stir formulations already in drums
“ Mixing Room has general ventilation and/or floor sweeps
“ Mixing Room has all VOC emissions vented to air pollution control equipment

“ Fabric Coating
“ Paper Coating
“ Large Appliances
“ Magnet Wire Surface Coating
“ Surface Coating of Autos & Light Trucks
“ Metal Can Coating
“ Metal Coil Coating
“ Metal Furniture Surface Coating
“ Wood Furniture Surface Coating
“ Surface Coating of Flat Wood Paneling
“ Surface Coating of Plastic Parts
“ Surface Coating of Large Ships
“ Surface Coating of Large Aircraft
“ Surface Coating of Miscellaneous Metal Parts
“ Surface Coating of Steel Drums
“ Vinyl Coating
“ Wood Product Coating
“ Surface Coating/Other (specify)_____

“ Fabric Printing
  “ Roller
  “ Rotary Screen
  “ Flat Screen

“ Paper Printing
  “ Flexographic Printing
  “ Rotogravure Printing
  “ Roll Printing
  “ Packaging Rotogravure Printing
  “ Publication Rotogravure Printing
  “ Specialty Printing
  “ Lithography
  “ Letter Press

“ Printing/Other (specify)_____
“ Pressure Sensitive Tape
“ Formulation/Other (specify) _____

“ High Solids Coating
“ Water-Borne Coating
“ Dip
“ Spray
“ Ultraviolet Coating
“ Electrostatic Spray
“ Interior Coating
“ Exterior Coating
“ Filler
“ Sealer
“ Electrodeposition
“ Adhesive
“ Paint
“ Enamel
“ Varnish/Shellac

For each VOC control device utilized by your facility, report the following data:

RI DEM Approval No.					
# days operated June - August, 2004					
# days operated all other months, 2004					
# days by-passed June - August, 2004					
# days by-passed all other months, 2004					

Return to: Air Pollution/Toxics Inventory, Office of Air Resources
235 Promenade Street, Providence, RI 02908-5767

Rhode Island Department of Environmental Management
2004 Air Pollution Inventory

Detailed Spreadsheet for Surface Coaters, Printers and Users of Volatile Formulations

Weight % data

Facility Name: _____

Production Line: _____ _____

Substrate for Formulations on this Spreadsheet: _____

This spreadsheet presents data from:

3 June - August No. of Summer Days: _____

3 All Other Months

Solvent Names Continue in Alphabetical Order with CAS No. >>>>

COATING, INK OR FORMULATION NAME	2004 AMOUNT USED (GALS.)	PERCENT SOLIDS (WT %)	TOTAL VOC (WT %)	WEIGHT OF ONE GALLON (LBS.)	CALCULATED TOTAL VOCs* (LBS.)	These should add <<< up to 100% >>> (WT %)	(LBS.)	(WT %)	(LBS.)	(WT %)	(LBS.)	(WT %)	(LBS.)
.													
.													
.													

TOTAL EMITTED OF EACH SOLVENT (lbs.):

TOTAL VOC (lbs.):

* Calculated Total VOCs = (amount of coating used (gals) x weight of 1 gallon (lbs)) x (total VOC weight % / 100)

** Overall Efficiency = Capture Efficiency x Destruction Efficiency

- If there are many water-based formulations, add a column in your spreadsheet for % water.
- Please provide chemical analysis of the waste disposed, if available, for proper credit.
- Emission Statement Sources only:
  Apportion and record stack emissions, fugitive emissions, and calculated fuel emissions on Emissions Summary Table. Follow Rule Effectiveness Guidance if you used air pollution control equipment.

Air Pollution Control Equipment	Thermal Oxidizer
Approval Number	
Capture Efficiency	
Destruction Efficiency	
Overall Efficiency**	

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235 Promenade Street, Providence, RI 02908-5767

Rhode Island Department of Environmental Management
2004 Air Pollution Inventory

Detailed Sample Spreadsheet for Surface Coaters, Printers and Users of Volatile Formulations
Weight % data

Facility Name:

This spreadsheet presents data from:

Production Line: 4 Stacks: 6, 7, 8

[3] June - August No. of Summer Days: 66

Substrate for Formulations on this Spreadsheet: FABRIC

[3] All Other Months

These should add <<< up to 100% >>>

Solvent Names Continue in Alphabetical Order with CAS No. >>>>

COATING, INK OR FORMULATION NAME	2004 AMOUNT USED (GALS.)	PERCENT SOLIDS (WT %)	TOTAL VOC (WT %)	WEIGHT OF ONE GALLON (LBS.)	CALCULATED TOTAL VOCs* (LBS.)	(WT %)	BUTYL ACRYLATE 141322 (LBS.)	(WT %)	2-ETHOXY ETHANOL 110805 (LBS.)	(WT %)	METHYL ETHYL KETONE 78933 (LBS.)	(WT %)	MISC. VOCs 1 (LBS.)
Heather 857D	1230	48	52	9.42	6025.032	15	1737.99	7	811.062	28	3244.248	2	231.732
Thinner added	55	0	100	6.72	369.6					100	369.6		
Satin Rose 9-348	2465	42	58	9.65	13796.605	45	10704.2625	12	2854.47			1	237.8725
Thinner added	125	0	100	6.72	840					100	840		
.													
Waste Coating(s), Ink(s) or Formulation(s) Disposed	110	85	15	9.04	-149.16	8	-79.552			5	-49.72	2	-19.888
TOTAL EMITTED OF EACH SOLVENT (lbs.):							12362.7005		3665.532		4404.128		449.7165

TOTAL VOC (lbs.): 20882.077

Note: Misc. VOCs include benzyl alcohol (84742), ethanol (64175), ethyl acetate (141786), isopropyl alcohol (67630), and 2-phenylphenol (90437) only.

* Calculated Total VOCs = (amount of coating used (gals) x weight of 1 gallon (lbs)) x (total VOC weight % / 100)

** Overall Efficiency = Capture Efficiency x Destruction Efficiency

- If there are many water-based formulations, add a column in your spreadsheet for % water.
- Please provide chemical analysis of the waste disposed, if available, for proper credit.
- Emission Statement Sources only:
  Apportion and record stack emissions, fugitive emissions, and calculated fuel emissions on Emissions Summary Table. Follow Rule Effectiveness Guidance if you used air pollution control equipment.

Air Pollution Control Equipment	Thermal Oxidizer
Approval Number	XXXX
Capture Efficiency	95 %
Destruction Efficiency	99 %
Overall Efficiency**	94 %

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Rhode Island Department of Environmental Management
2004 Air Pollution Inventory

Supplemental Chemical Use Survey

Page _____ of _____

_____
Facility Name

_____ _____
Signature of Person Completing Form Date

Note: Report only those substances used at the facility which have <u>not</u> been reported on the Surface Coating/Printing/Formulation Use Spreadsheet.

VOC or Regulated Substance Name & CAS Number			
	CAS:	CAS:	CAS:
Type of Operation			
Starting Inventory* (1/1/2004)			
Amount Purchased in 2004			
Ending Inventory* (12/31/2004)			
Amount Manifested and % of that manifested waste which was the Regulated Substance*			
	%	%	%
Amount of Substance Released to Air			
Air Pollution Control Equipment and Approval No.	Type: Appr. No.:	Type: Appr. No.:	Type: Appr. No.:
Capture Efficiency (Percent)			
Overall Efficiency (Percent)			

*If known (attach additional sheets if necessary)

Return to: Air Pollution/Toxics Inventory, Office of Air Resources,
235 Promenade Street, Providence, RI 02908-5767

Instructions for Supplemental Chemical Use Survey

Regulated Substance - List all Volatile Organic Compounds (VOC) **and** all chemicals listed on the list entitled "Listed Toxic Air Contaminants" (see purple sheet) that were used at and/or emitted from the facility. Provide a CAS number, usually available on your MSDS. **Please note that all miscellaneous volatile organic compounds (VOCs) used in excess of 100 pounds must be reported even if the name is not specifically listed on the Listed Toxic Air Contaminants List.**

Type of Operation - Describe the process in which the listed substance was used (for example, degreasing, plating, wipe cleaning, etc.).

Starting Inventory - Report the amount of the substance present on site at the start of the year, if known. State whether the amount is given in pounds or gallons. Please provide data in pounds if possible.

Amount Purchased - Report the amount of the substance purchased in 2004 and indicate whether the number given is in pounds or gallons. Again, provide data in pounds if possible.

Ending Inventory - Report the amount of the substance present on site at the end of the year, if known. State whether the amount is given in pounds or gallons.

Amount Manifested - Report the amount (in pounds) of the regulated substance which was manifested as hazardous waste and the percentage of that waste that was this chemical. Please attach copies of all manifest records for proper credit.

Amount of Substance Released to Air - Calculate the amount of the substance emitted to air. Include both fugitive and stack emissions. **Attach documentation of the calculations used.** You may find it necessary to make other mass balance adjustments such as an amount disposed in a landfill or discharged to a POTW. Label carefully.

Describe Air Pollution Control Equipment - Provide a short description of the equipment used to control emissions of the regulated substance, if any. Examples follow:

Type:	Carbon adsorber, venturi scrubber, VOC incinerator, baghouse, etc. Include RI DEM Approval Number, if known.
Capture:	Give the capture efficiency for this chemical.
Overall:	Give the overall control efficiency of the control equipment for this chemical. Overall Efficiency = Capture Efficiency x Destruction or Recovery Efficiency

Note: On a separate sheet, please provide any additional information pertinent to your processes or air pollution control equipment that will assist us in calculating an accurate emissions estimate from your facility for 2004.